

**The Official Newsletter of the  
Auckland VHF Group Inc.  
Spectrum**



The VHF Group selling selected stock at Western Suburbs Sale

The General Meeting Notice — page 3

President's Report — page 4

November Annual General Meeting Minutes— page 5

November General Meeting Minutes — page 7

Callum Gillespie on his RN Submariner and NZ Coastguard — page 8

Use and Operation of Amateur Repeaters— page 11

Late Portfolio Report— page 13

Amateur 9cm and 3cm bands under threat—page 13

Ross Hull Memorial Contest—page 14



# Auckland VHF Group Inc. Branch 66 NZART

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Clubrooms: 30 Hazel Ave, Mt Roskill

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Secretary	Vaughan Henderson	ZL1VH	021 844 804	secretary@aucklandvhf.org
Treasurer	George Raffles	ZL1TUX	021 735 361	treasurer@aucklandvhf.org
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Club Web Page:	<a href="http://aucklandvhf.org">http://aucklandvhf.org</a>			
ZL1VHD Dstar gateway administrator:	Laurie ZL1ICU	634 5130	0274 817463	perma@xtra.co.nz
ZL1VHD Dstar gateway registration URL :	<a href="http://zl1vhd.dstar.org.nz">http://zl1vhd.dstar.org.nz</a>			

## Club News and Net:

The combined Auckland VHF Group and Auckland Regional Branch News and Net are held on 146.625 MHz and 439.875 MHz at 8.15 pm each Sunday or after the ZL6A National Broadcast on the last Sunday of the month.

Club meetings are held at the Clubrooms at Hazel Avenue, on the second Monday of each month at 7.30 pm. For other details, listen to the News and Net each Sunday evening.

**SPECTRUM** is the official journal of the Auckland VHF Group Inc. Opinions expressed are those of the authors and do not necessarily reflect club points of view. The closing date for SPECTRUM articles is by the 1st of each month. Articles to be submitted to the editor Peter ZL1UKG  
**spectrum@aucklandvhf.org**

# **Auckland VHF Group (Inc) Branch 66**

## **Christmas General Meeting Notice**

**Monday 14<sup>th</sup> December 2020 7.30pm**

At the Hazel Avenue Club Rooms  
(Located on the left at the end of Hazel Avenue)

### **December Meeting: VHF Group Xmas Party**

To farewell the 2020 year our December meeting will be the usual Christmas party at the clubrooms on Monday December 14th.

Please bring you own favourite beverages, the VHF Group will be supplying non-alcoholic drinks and a small selection of “nibbles”.

You are welcome to bring a plate to contribute to the supper.

**EVERYBODY WELCOME**

**We look forward to seeing you there**

### **Coming Events:**

**05-06 December VHF Field Day Contest** from 5 to 11 pm Saturday and 7 am to 1 pm Sunday. Contest starts on Saturday 7 December at 1700 hours and ends at 2300 hours – 6 x 1 hour periods. The contest resumes on Sunday 8 December at 0700 hours and finishes at 1300 hours – another 6 x 1 hour periods. Look for operation on 6m around 50.15 MHz, 2m around 144.2 MHz, on 70cm at 432.2 MHz. Most operation will be on SSB but do give a call using FM mode if you don't have SSB available.

Full contest rules can be found here:

<https://www.nzart.org.nz/activities/contests/vhf-and-above-contests>

- 06-07 February DX Weekend Contest from 5 to 11 pm Saturday and 7 am to 1 pm Sunday

## Auckland VHF Group Presidents Report December 2020

So that's another year pretty much wrapped. For many it has been verging on bizarre, with restrictions and precautions imposed on our lives which we have never encountered before. I would have expected more activity on our repeaters, but that has not eventuated.

If you are working on a project that others might be interested in, I can photograph it if you don't have the kit. My gear will do full frame of about thumb nail size, using an enlarger lens reverse mounted on a Nikon full frame.

I'll be going up to Klondyke on the next calm and sunny day to photograph the tower work required, using a cheap little drone. If anyone has a better one with GPS hover capability, that would do a better job. Let me know. And if anyone wants to come for a looksee, drop me a line.



At Coastguard we are running a little low on radio operators, so if you have a free day or two a month and want to help people recover from mishaps, please out your hand up. It's mostly routine trip reports punctuated by desperate call for help requiring quick calm responses.

Our last meeting for the year is on Monday 7th of December, our end-of-year xmas social and get-together, then we'll be on our ways. Please welcome Mark ZL1UMK who has joined our committee for the 2020/2021 year. I would like to thank all those on the committee and executive for their assistance this year and also those members who have helped with clubrooms maintenance, especially Simon ZL1THH.

I would like to take this opportunity to wish everyone a very merry Christmas and a happy and prosperous New Year. Have a good and enjoyable holiday (if you get one) and we will get underway again in the new year, kicking off with our BBQ in January.

Best 73's

Matthew King ZL1YOT



Minutes of the 2020 Annual General Meeting of the Auckland VHF Group Inc.  
Held at the clubrooms, Hazel Avenue on 9 November 2020

The meeting commenced at 7.45 pm.

Attendance: 16 members as per the attendance book. Plus ZL1XXX, ZL1AOX, ZL1BPA and ZL1ACY via teams.

Apologies: ZL1BFB, ZL1TIA

AGM Minutes 2019:

That the minutes of the 2019 AGM as printed in November 2020 Spectrum be taken as read.

Moved: ZL1UKG, Seconded: ZL1TCI Carried.

Matters Arising: - NIL

President's Report:

Matthew ZL1YOT presented his report as printed on page 8 of November 2020 Spectrum.

Moved: ZL1YOT, Seconded: ZL1TCI Carried.

Vice-President's Report:

As there was no Vice President for the year there was no Vice President's Report.

Secretary's Report:

No Secretary's Report Presented.

Treasurer's Report:

ZL1 TUX presented his Treasurer's report as printed on pages 10 and 11 of November 2020 Spectrum.

Moved the report be received: ZL1TUX Seconded: ZL1YOT Carried

Digital Presence Group Report:

ZL1XXX presented the report as printed on page 9 of November 2020 Spectrum.

Moved the report be received: ZL1XXX Seconded: ZL1YOT Carried

Spectrum Editor's Report

Peter spoke to the meeting about content for articles, General and Committee Meetings to keep the Club informed.

Moved: ZL1UKG Seconded: ZL1VH Carried

AREC Report:

No AREC report was presented.

Repeater Report:

ZL1VH presented his report as printed on pages 11 to 13 of November 2020 Spectrum

Moved the report be received: ZL1VH Seconded: ZL1YOT Carried

Trading Table Report:

ZL1VH presented his report as printed on page 13 of November 2020 Spectrum

Moved the report be received: ZL1VH Seconded: ZL1YOT Carried

Continued on page 6

Election of Officers:

President

Nominee: ZL1YOT Moved By: ZL1VH Seconded By: ZL1UKG Carried

Vice President:

Nominee: ZL1XXX Moved By: ZL1VH Seconded By: ZL1YOT Carried

Secretary:

Nominee: ZL1VH Moved By: ZL1YOT Seconded By: ZL1TUJ Carried

Treasurer:

Nominee: ZL1TUX Moved By: ZL1YOT Seconded By: ZL1TOW Carried

Honorary Reviewer:

Nominee: ZL1TOW Moved By: ZL1TUX Seconded By: ZL1VH Carried

Committee:

Nominee:

ZL1TCI Moved By: ZL1VH Seconded By: ZL1YOT )  
ZL1GSG Moved By: ZL1AOX Seconded By: ZL1TCI )  
ZL1UMK Moved By: ZL1YOT Seconded By: ZL1VH )  
ZL1BPA Moved By: ZL1YOT Seconded By: ZL1TCI )

Head Repeater Trustee:

Nominee: ZL1VH Moved by ZL1YOT, Seconded by ZL1TCI )

AREC Group Leader:

No nomination received. This position not filled pending an upcoming re-organisation of AREC in Auckland.

ZL1BQ Callsign Trustee

Nominee: ZL1YOT Moved by ZL1VH, Seconded by ZL1TUJ )

Spectrum Editor

Nominee: ZL1UKG Moved by ZL1VH Seconded by ZL1BPA )

Klondyke Site Trustee

Nominee: ZL1VH Moved by: ZL1YOT Seconded by: ZL1TUJ )

Motion: "That all the Committee and Officer positions be approved" Moved ZL1YOT, Seconded ZL1TJU. Carried.

**General Business:**

Basil ZL1TOW raised the matter of the close off date for our accounts and recommended that we change it to 30 June to allow time for the annual accounts to be prepared and reviewed in time for our Annual General Meeting. This would also allow these to be included in the November Spectrum and brings us into line with many other similar organisations. There was general agreement with this proposal.

Moved ZL1TOW, Seconded ZL1YOT "That we make the End of Financial Year 30 June to allow the accounts to be prepared in time for the AGM" Carried.

There being no further business, the meeting concluded at: 2000.

E&O.E. ZL1VH

Auckland VHF Group Inc.  
Minutes of the November General Meeting  
Held at the clubrooms, Hazel Avenue on 9 November 2020

The meeting commenced at 8.01 pm.

Attendance: 16 members as per the attendance book. Plus ZL1XXX, ZL1AOX, ZL1BPA and ZL1ACY via teams.

Apologies: ZL1BFB, ZL1TIA

Minutes of Previous Meeting:

That the minutes of the October General Meeting as printed in November 2020 Spectrum be taken as read.

Moved: ZL1TCI, Seconded: ZL1VH Carried.

Matters Arising: - NIL

Correspondence In:

AREC Memorandum of Understanding – Annual \$600 grant received.  
AON Insurance Invoice

**General Business:**

Vaughan ZL1VH advised that he had received a quote of \$13,904.54 incl GST for the replacement of the cable tray and mounting block plus the design and supply of a new ladder for the vertical top section of the Klondyke Radio mast. He briefly described the work required at the site and that a second quote from TBS Farnsworth had been requested. It may be that club members can do some of this work and the Committee will report back.

There being no further business, the meeting concluded at: 8.11pm.

**Guest Speaker:**

Matthew ZL1YOT introduced Callum Gillespie, CEO of Coast Guard New Zealand. Originally from Scotland, Callum spent some 20 years in the Royal Navy, most of it on nuclear submarines. He met and married a New Zealand girl, and subsequently emigrated to New Zealand, ending up in his current position as CEO of Coast Guard New Zealand. A report of Callum's talk to the Group is printed on page 8 of the December 2020 issue of Spectrum.

E&O.E. ZL1VH

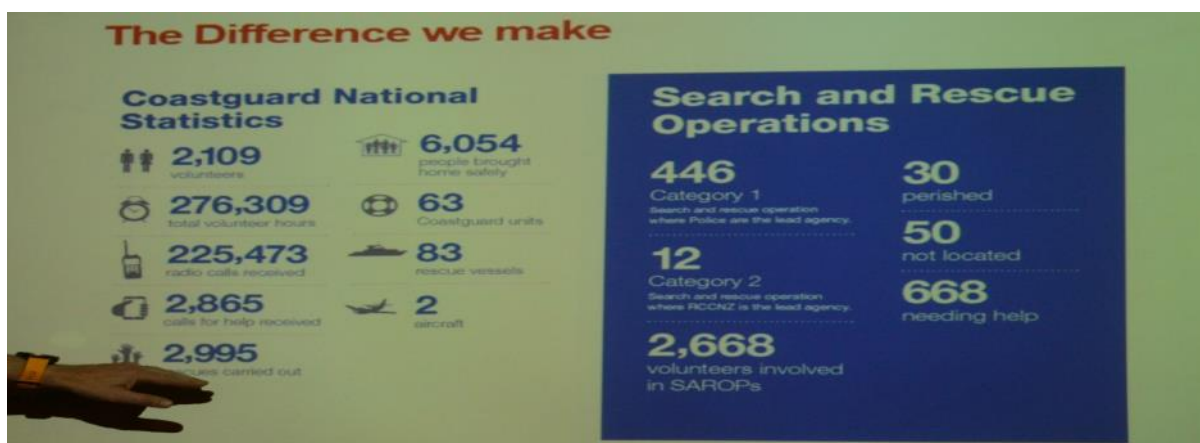


## Callum Gillespie presents the NZ Coast Guard and his earlier training with the Royal Navy in Submarines

Callum began his training with the Royal Navy at Naval College Dartmouth for Officers in 1988. His specialisation was in Navigation. One starts off in surface ships. Naval officers were also taught etiquette for cocktail parties. You had to wear a cummerbund on the bridge after dinner on a destroyer. He also spent a period in an older submarine which was cramped and didn't stay underwater for long periods using diesel engines. He moved to a nuclear submarine for a year of training in HMS Superb. They had a much longer duration underwater. To be in a submarine you had to be more civilised in dealing with staff than on the surface. Not much time was spent on the surface. For communication on the conning tower there were antennas alongside the periscope. These had to be painted in absorbing material so that radar detection was difficult. Bare metal reflects radio beams.

Callum then moved to HMS Vanguard, about 4 times heavier than the first nuclear submarine, displacing about 16,000 tons and carrying Trident II missiles. It could stay underwater as long as food held out and no mechanical problems arose and cruise at up to 25 knots. He described a near miss while entering a UK harbour at sunset. The Vanguard was heading for a buoy. He had to give + and - 30° bearing changes to avoid damage to the buoy tether and elevation blades of the submarine. Luckily damage was avoided. Missions of 75 days around the Atlantic staying underwater were standard. A floating long tube is towed on the surface to receive VLF messages. No transmission is made to prevent location being identified. He left the submarine service as a lieutenant commander in 2000 to marry a kiwi girl and move to New Zealand.

New Zealand saw him working for a bank for 5 ½ years before joining the NZ Coast Guard. The Coast Guard was organised as 5 regions which have been merged into one organisation. Callum is now the CEO since February 2020. There are approximately 2000 volunteers around NZ. The Coast Guard web site has an Annual Report to explain what the organisation does. Category 1, 2 severity calls are life threatening which will result in a call out. They also serve people on land (at the water's edge). The Coast Guard uses an aircraft which can search for people who don't have GPS to give accurate positions. During Covid lockdown boaties were requested to stay home. Coast Guard is the last transport from local islands to take people to cities for treatment. There were only 12 calls during the 4, 3 levels.



This account was made from notes taken by the Editor during the presentation.



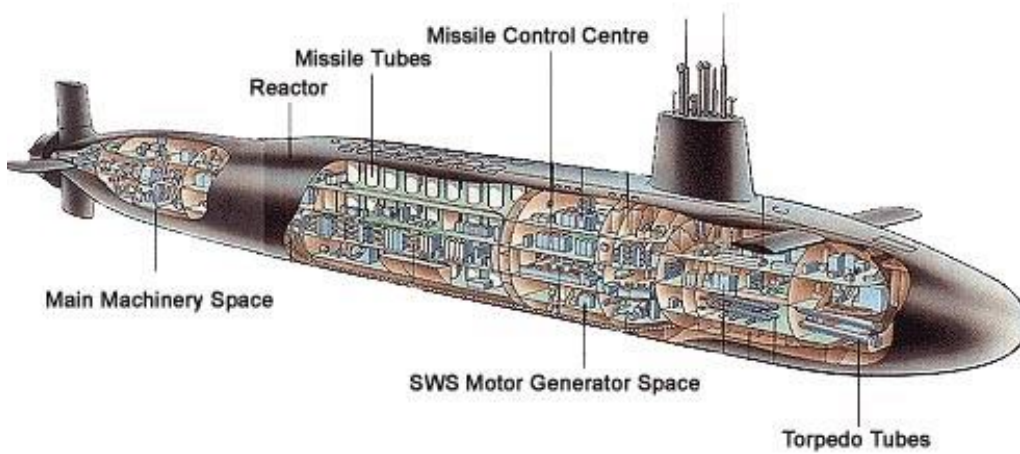
A model of the Superb submarine design.



The Suberb submarine at sea



The Vanguard submarine ready for delivery



A model of the Vanguard design



A Vanguard at sea



A Vanguard firing a Trident II Missile

## Use and Operation of Amateur Repeaters

Over the past decades, concerns have grown about a relatively small number of radio amateurs on the bands, whose on-air behaviour is in danger of spoiling enjoyment of amateur radio for the majority. Amateur radio relies on a strong level of self-discipline in on-air operating and the new ways of acquiring amateur licences do not always allow time for passing on operating skills from generation to generation.

The following operating guidelines and suggestions are offered to try and make operation through the many VHF and UHF repeaters a more enjoyable experience:

- Repeaters serve in the first place to extend the operating range of portable and mobile stations on VHF/UHF.
- Use simplex wherever possible. Using repeaters to make contacts between two fixed stations should be an exception rather than the rule. New Zealand's often hilly terrain can make simplex contacts difficult, so if using a repeater can facilitate a contact – don't hesitate to do so.
- Stations using the repeater should pause until its carrier drops out or a beep appears, to avoid inadvertent *doubling* (simultaneous transmission) and to allow time for new stations to identify. Pausing usually also allows the repeater timer (if there is one) to reset, avoiding a *time-out*. *In New Zealand the recommended pause between overs is 3 seconds – please try to observe this AT ALL TIMES.*
- **The National System of linked UHF repeaters must not be used for local contacts** – i.e. talking across Auckland using the 439.875MHz repeater is strongly discouraged. The whole purpose of the National System is to allow contacts from one end of New Zealand to the other. If you are both "local" to the repeater, use another frequency or local repeater. Keep in mind that amateurs listening to the National System in remote parts of the country do not want to have to listen to local Auckland stations!
- If you want to talk via the repeater while it is already in use, wait for a pause between transmissions to announce your call.
- If you want to join into an existing conversation, use the term 'break' during one of the 3-second pauses. If you have an emergency or life-threatening situation, say "break break break or better "break break break with emergency traffic".
- **Do not monopolize the repeater.** Repeaters are there not only for you and your friends. Be conscious that others may want to use the repeater as well; be obliging.
- **Keep your contacts through a repeater short and to the point.** Recommended maximum duration for a contact between two stations using a repeater is 20 minutes. If you need to talk for longer than that, please try using one of the HF bands or a simplex frequency.
- Repeaters should not serve to inform the XYL that you are on your way home and that lunch can be served... Contacts through amateur radio concern primarily the technique of radio communications. Allowing your YL or XYL who is not licensed to interject or make comments is not in compliance with the terms and conditions of the Amateur GURL.

- Don't break into a contact unless you have something significant to add. Interrupting is no more polite on the air than it is in person.
- Interrupting a conversation without identification is not correct and in principle illegal interference.
- If you frequently use a particular repeater, consider supporting those that keep that repeater on the air.

### **What to you Talk About on the Amateur Bands?** – from the IARU Document “Ethics and Operating Procedures for the Radio Amateur”

In principle: about the **technique of radio communications**

*... in the broad sense of the term.*

Some subjects which are a **no no** in amateur radio conversations on the air are:

Religion.

Politics.

Business (you can talk about your profession, but you cannot advertise for your business).

Derogatory remarks directed at any group (ethnic, religious, racial, sexual etc.).

'Bathroom humor': if you wouldn't tell the joke to your ten year old child, don't tell it on the radio.

Any subject that has no relation whatsoever with the ham radio hobby.

### **Is any of this legally binding?**

For the most part no! The Amateur GURL specifies that you must identify using your callsign at least once every 15 minutes.

The New Zealand Radio Regulations as they apply to the Amateur Service includes the following wording:

Operator of radio transmitter to hold valid operator certificate: If a radio licence specifies that the operator of any radio transmitter operating under the radio licence must be the holder of a certificate of competency of the class specified on the radio licence, the radio transmitter must not be operated by any person who is not the holder of a certificate of competency of the required class, or of a certificate recognised by the chief executive.

The amateur band plans as published in the NZART Callbook are also not legally binding. However, following the bandplans and will make operation for all radio amateurs more enjoyable and avoid causing interference to others using the band.

Neglecting to apply the operating procedures outlined in this document will not send you to jail, but will most certainly result in inferior operating practice on your part!

## **Auckland VHF Group Inc., 2019-2020 End of Year Editor's Report**

The Editor has been short at times for material to print. I thank Vaughan ZL1VH for his help finding topics of interest to members of the club.

It can take 2—3 evenings getting the layout looking OK, using Microsoft Publisher followed by corrections fed back from proof reading. I also send out the file for proof reading before sending to Terry Corin before it is loaded onto the web site. I thank Vaughan again for his keen eye spotting the occasional errors that take a little time to get right.

Nominally the print deadline is after the Committee Meeting so that any matters to be notified to the members can be written up and sent to the Editor. This is currently cutting it fine being in the Members' hands. It usually does not take too long for the Treasurer to get the Notices distributed to members after that.

There is the occasional feed back that members would like Spectrum to be received earlier. I hope that this will help the members to understand what goes on in the background.

Editor Peter ZL1UKG

### **Amateur 9cm and 3cm bands under threat**

In the USA, the Federal Communications Commission has prepared draft documents to go before the next World Radiocommunication Conference 2023 (WRC-23) for consideration under Agenda Item 1.2. This agenda item will consider the identification of frequencies in the 3.3 - 3.4 GHz and 10.0 - 10.5 GHz bands, among others, "for International Mobile Telecommunications (IMT), including possible additional allocations to the mobile service on a primary basis," in accordance with WRC-19 Resolution 245. While the ARRL has submitted a response urging no change to the 3.3 - 3.4 GHz international secondary allocation to the Amateur Service in ITU Regions 2 (the Americas) and 3 (Oceania), and no change to the 10.0 - 10.5 GHz worldwide secondary amateur and amateur-satellite allocation.

"Radio amateurs make substantial use of both bands," ARRL said in its comments. "They have conducted experiments and designed systems that protect primary users. The lack of interference complaints is evidence that they have been successful in doing so. In this manner, new spectrum horizons are explored and new techniques are developed that put spectrum to productive use that otherwise would represent lost opportunities and waste of the natural resource."

ARRL stressed that the WRC preliminary views make no suggestion that the international secondary allocations to the Amateur Service should not continue in both bands. ARRL said it wanted to reaffirm that these secondary allocations continue to be important and useful and that WRC-23 should not consider changing either secondary allocation.

"Sharing between primary users and secondary amateur radio users has been highly successful, and the US domestic Table reflected the International allocations until this year," ARRL said. In September, however, the FCC adopted an *Order* to delete the secondary amateur and amateur-satellite allocations in the 3.3 - 3.5 GHz band. Amateur radio operations may continue on a secondary basis, subject to decisions to be made on issues raised in a *Further Notice of Proposed Rulemaking* in the proceeding, WT Docket 19-348.

ARRL maintained that amateur radio should remain secondary in the international allocations at 3.3 - 3.4 GHz "until more is known about the technical characteristics of equipment that will be used by new services and the extent of geographic build-out."

With regard to 10.0 - 10.5 GHz, ARRL noted that it has been used for many amateur terrestrial experiments and tests that have helped to develop the technical characteristics of the band. The band is also heavily used throughout much of the world as the downlink for the Qatari amateur satellite Es'hail-2 (QO-100).

ARRL noted that radio amateurs utilizing the secondary spectrum at 3.3 - 3.4 GHz and 10.0 - 10.5 GHz "have developed and honed their equipment and capabilities to share with the existing services." "The Amateur Service has earned its reputation for making careful and non-preclusive use of its secondary allocations and will continue doing so," ARRL concluded. "Therefore, we respectfully request that the Amateur Service and Amateur-Satellite Service be continued as secondary services in the above bands."

## **Invitation—Ross Hull VHF/UHF Memorial Contest January 2021**

Hi All

I'm the Ross Hull VHF UHF Memorial Contest Manager and am looking to increase interest in this long running contest.

The contest was established in 1950 to honour the memory of the late Ross A. Hull an Australian, who by his pioneering achievements in the study of tropospheric propagation, developed new equipment and techniques for the higher bands.

The Ross Hull Contest is a DX contest, where points are awarded for distances worked. There are also band multipliers to encourage activity on the higher bands.

Stations in New Zealand have been frequently worked and logged. In 2012 the first New Zealander, Mr R. Mcquarrie ZL3TY was the first New Zealand station to win the contest.

The contest is open to all amateur radio operators, and they are encouraged to work as many VHF and UHF stations as possible over January 2021.

I encourage stations outside VK such as in New Zealand, Fiji, New Caledonia, Solomon Islands and other countries to enter a log to obtain a score.

There is no need for contest stations outside VK to have to work any stations in Australia, as it is a matter of DX and tropospheric propagation.

Further information relating to the Ross Hull VHF UHF Memorial Contest may be found at <https://www.wia.org.au/members/contests/rosshull/>.

There is no requirement to be a member of the WIA, just have fun and enjoy our hobby; looking to receiving your log for 2021.

Please pass this invitation to all the members of your amateur radio organisation.

Thank you for your assistance in this matter,

73

Rob Heyer VK2XIC





**Amateur Radio Emergency  
Communication.  
Volunteers in radio communications.  
Using our resources to help the community.**

**INFORMATION**

The Auckland VHF Group has an AREC Group that works closely with Auckland Council Emergency Management. They provide advice, resources and manpower to assist in times of need.

The AREC section is headed by Group Leader David Dingley ZL1TIA.

From time to time the VHF Group has training sessions and exercises. Members also assist with sports events, parades and other community activities. For further information about AREC please see the NZART web site: <https://www.nzart.org.nz/news/blog/arec-update-and-funding>

**JOIN BRANCH 66 AREC**

All members of the Auckland VHF Group are encouraged to join the AREC group. Your contribution, large or small is appreciated by all involved. For further information about joining Branch 66 AREC contact the Group Leader:

David Dingley ZL1TIA                      828 9394 mardayak@gmail.com

George Raffles ZL1TUX                    021 735 361 z11tux@xtra.co.nz

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**AREC News:**

Next activity: Auckland Santa Parade on Sunday 29 November. Rain date is Sunday 6 December. If you would like to assist with marshalling/crowd control duties for this parade, please contact Dave ZL1TIA.

Coming Up: Tour De Ranges, Saturday 9 January. Contact Richard ZL1BNQ if you want to take part.



## AUCKLAND VHF GROUP (INC)

SUPPORT THE EFFORTS OF THE VHF GROUP THROUGH YOUR  
SUBSCRIPTION

### SUBSCRIPTIONS FOR 2020

THE SUBS GO TOWARDS;

- Maintenance and on-going improvements to beacons, repeaters and linking systems for the national system, including the Klondyke repeater site.
- Providing on-time and free access to spectrum magazine as soon as it is available.
- Providing facilities for good speakers and lecturers at our general meetings.
- Discounted access to our trading table goodies.
- Access to test equipment and technical help when needed.

FULL MEMBERSHIP **\$55.00**

ASSOCIATE MEMBERSHIP **\$50.00**

FAMILY MEMBERSHIP ADDITIONAL **\$20:00**

*SEE ATTACHED MEMBERSHIP RENEWAL FORM (next page)*

**REMEMBER TO KEEP US INFORMED OF YOUR EMAIL  
ADDRESS!**

**OTHERWISE WE CANNOT SEND YOU SPECTRUM!**



**Thought for the month:**

“I know there's a proverb which that says 'To err is human,' but a human error is nothing to what a computer can do if it tries .”

### Auckland VHF Group Inc 2020/2021 Subscription Form

<b>NAME</b>		<b>Mr/Mrs/Miss/Ms</b>	<b>Christian or given</b>	<b>Surname</b>
<b>Address</b>			Date:(dd/mm/yy)	
			Phone: (home)	
			Phone: (work)	
			Phone (Cell)	
			<b>Email</b>	
<b>Occupation:</b>				<b>Callsign:</b>
<b>NZART Member</b>		Yes/No		<b>Branch assigned</b>
<b>AREC Member</b>		Yes/No		<b>Branch assigned</b>
Family Member 1	(Full Name)	(Call)	(Email)	(Mobile #)
Family Member 2	(Full Name)	(Call)	(Email)	(Mobile #)
Family Member 3	(Full Name)	(Call)	(Email)	(Mobile #)
<b>Category</b>				<b>To pay</b>
<b>Membership</b>		Full		\$55.00 \$
<b>New/Renewal/Change</b>		Associate		\$50.00 \$
<b>Receipt #</b>		Family (per member)		\$20.00 \$
<b>Donations</b>		Klondyke Refurbishment		\$
Auckland/Brynderwyn/ Klondyke/670/690		Repeater Maintenance		\$
		Data/D-Star		\$
		Beacon/Repeater/Links/ Licences		\$
		Other		\$
		<b>Total</b>		\$
<b>Payment</b> (Mark One → )		Cash <input type="checkbox"/>	Cheque <input type="checkbox"/>	Internet deposit <input type="checkbox"/>
Invoice/Statement required <b>Please Advise Treasurer</b>				
<b>Internet</b>	To account <b>ASB 12-3011-0830580-00</b> . Account name is: <b>Auckland VHF Group Inc</b> . Include your <b>Name/Callsign</b> for us to track. Note: this form needs to be sent to us to update records. Email to: <b>treasurer@aucklandvhf.org</b> .			
<b>Post</b>	The Treasurer, Auckland VHF Group Inc., PO Box 10138, Dominion Road, Auckland 1446.			
<b>In Person</b>	Bring this form and payment to the next club meeting, 2 <sup>nd</sup> Monday of the month or to the Committee meeting the 4 <sup>th</sup> Tuesday of the month.			
<b>Privacy</b>	Unsubscribe from Email Notifications <input type="checkbox"/>	Do Not disclose contact information <input type="checkbox"/>		

***The Auckland VHF Group Inc Branch 66 NZART***  
*gratefully acknowledges the sponsorship of Branch 66 Beacons, Repeaters and Fixed Links license fees and the Group's repeater operations by the following radio amateurs and NZART Branches for 2020*

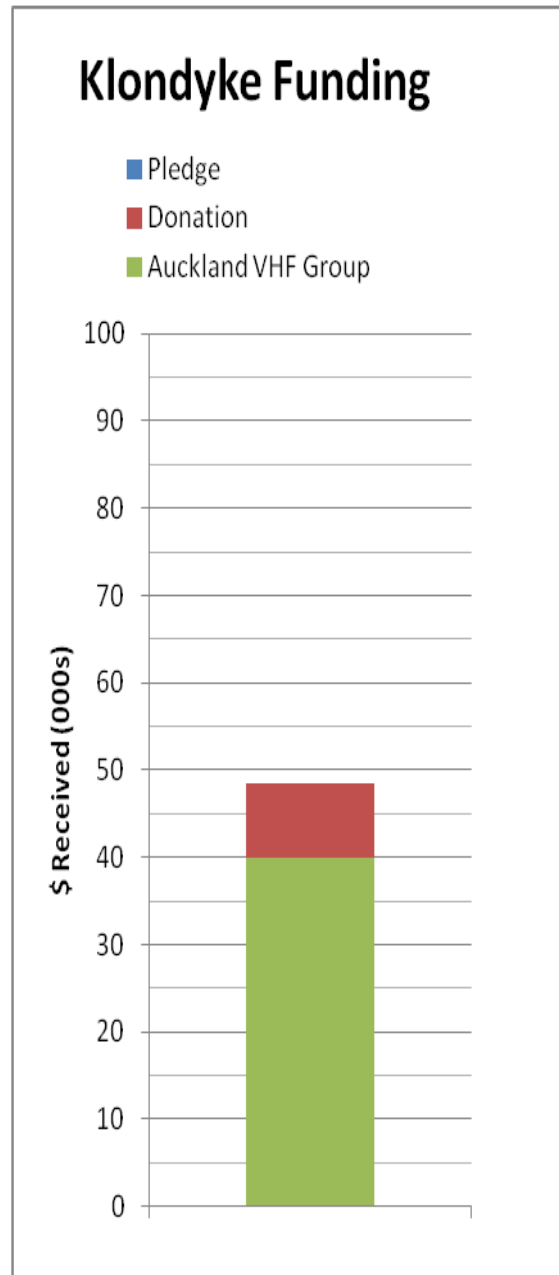
<b><u>Repeater frequency</u> and name</b>	<b>Repeater location</b>	<b>Sponsorship advised for 2020</b>	<b>Amount paid</b>
53.725 Repeater	Klondyke Road	Gwynne Rowe	\$50
144.253 Beacon	Nihotupu		
145.625 Data Rptr	Klondyke Road	Not operating	
145.650 D-Star repeater	Klondyke Road	Laurie/Marlene Mathews	\$50
146.625 Repeater	Klondyke Road		
146.700 Repeater	Ruaotuhenua	Dennis Thornton	\$50
146.900 Repeater	Mt Puketutu Radio	David Wilkins	\$50
432.253 Beacon	Nihotupu		
438.175 D-Star repeater	Klondyke Road	Laurie/Marlene Mathews	\$50
438.500 Repeater		Not operating	
439.850 Link Tx to Kaimai	Klondyke Road	Franklin Radio Club	\$50
439.875 Ak Nat Sys Rptr	Klondyke Road	Franklin Radio Club	\$50
439.900 Link Tx to Egmont	Klondyke Road	Franklin Radio Club	\$50
439.950 Link Tx to Brynderwyn	Klondyke Road	Franklin Radio Club	\$50
1291.900 Repeater	217 Glenfield Rd	Soren Low	\$50
		<b>Total Sponsorship</b>	<b>\$500</b>
<b>NZART Inc: Branch/Personal donations</b>			
<b>Papakura Radio Club</b>		\$500	
<b>Auckland Branch</b>		\$100	
<b>Manukau Radio Club</b>		\$100	
<b>George Marr, ZL1TUJ</b>		\$50	
<b>Kylie Peterson, ZL1KM</b>		\$50	
	<b>Donations</b>	<b>\$1300</b>	
<b>Current as at 25/08/2020</b>			

*The Auckland VHF Group, Branch 66, would like to thank all those who came forward to sponsor the licence fee for our Beacons, Repeaters or Fixed Links for the year 2020 or donate towards the Group's repeater Operations.*

**Klondyke Tower  
Donations towards Maintenance**

**Target      100,000**

Name	Donation	Pledge	Tower	63,245.00	Other	27,268.25
			GST	9,486.75		
Donations 2018 - 2019	6550.00					
			Total	72,731.75	Total	27,268.25
Charles Graves	15.00					
Ian Ashley ZL1AOX	500.00		Auckland VHF Group	40,000.00	40.00	
Keith Dix ZL1BQE	50.00					
Margaret Dingley ZL1AYV	100.00					
David Dingley ZL1TIA	100.00					
Jenny Dingley ZL1TDB	100.00					
Russell King ZL1WITT	20.00					
Basil Orr ZL1TOW	500.00					
Raffle - Meter	339.00					
Martyn Seay ZL3CK	100.00					
Brian Faithfull	50.00					
Mark Howe	20.00					
George Marr ZL1TUJ	50.00					



Total	8494.00	-
Percent	8.49	0.00

**Minutes of the General Meeting of the Auckland  
VHF Group Inc.**

## TRADING TABLE

Currently our Trading Table is only open on meeting nights but wait, there's more!

Trading Table is now on line. Navigate your way to our new look web site at <https://aucklandvhf.org/> and click on TRADING TABLE (the most right hand tab).

Wait a few seconds and the on-line version of the Trading Table will pop up. From here you can browse the various sections, dig deeper to look at what's available and even place your order online.

If you prefer to just look at the Trading Table List, just hover your mouse pointer over the TRADING TABLE and a pull down list will appear. From this you can access the full trading Table list and download it in .PDF form.

